

FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFF	111111	111111	AAA	AAA
FFF	111111	111111	AAA	AAA
FFF	111111	111111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111111111	111111111	AAA	AAA
FFF	111111111	111111111	AAA	AAA
FFF	111111111	111111111	AAA	AAA

GE 1  
VO4

.....

GGGGGGGG	EEEEEEEEEE	TTTTTTTTTT	FFFFFFFFFF	IIIIII	BBBBBBBB	
GGGGGGGG	EEEEEEEEEE	TTTTTTTTTT	FFFFFFFFFF	IIIIII	BBBBBBBB	
GG	EE	TT	FF	II	BB	BB
GG	EE	TT	FF	II	BB	BB
GG	EE	TT	FF	II	BB	BB
GG	EE	TT	FF	II	BB	BB
GG	EEEEEEEE	TT	FFFFFFFF	II	BBBBBBBB	
GG	EEEEEEEE	TT	FFFFFFFF	II	BBBBBBBB	
GG	GGGGGG	TT	FF	II	BB	BB
GG	GGGGGG	TT	FF	II	BB	BB
GG	GG	TT	FF	II	BB	BB
GG	GG	TT	FF	II	BB	BB
GGGGGG	EEEEEEEEEE	TT	FF	IIIIII	BBBBBBBB	....
GGGGGG	EEEEEEEEEE	TT	FF	IIIIII	BBBBBBBB	....

```

LL          IIIIII          SSSSSSSS
LL          IIIIII          SSSSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SSSSSS
LL          II             SSSSSS
LL          II             S
LL          II             S
LL          II             S
LL          II             S
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

```



```
1 0001 0 MODULE GETFIB (
2 0002 0 LANGUAGE (BLISS32),
3 0003 0 IDENT = 'V04-000'
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 1
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This routine obtains the address of the FIB for this operation.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 STARLET operating system, including privileged system services
42 0042 1 and internal exec routines.
43 0043 1
44 0044 1 --
45 0045 1
46 0046 1
47 0047 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 7-Jan-1977 01:02
48 0048 1
49 0049 1 MODIFIED BY:
50 0050 1
51 0051 1 V03-001 LMP0219 L. Mark Pilant, 24-Mar-1984 23:15
52 0052 1 Preset FIB$L_ACL_STATUS to SS$_NORMAL.
53 0053 1
54 0054 1 A0100 ACG0001 Andrew C. Goldstein, 10-Oct-1978 20:01
55 0055 1 Previous revision history moved to F11A.REV
56 0056 1
57 0057 1 **
```

GETFIB  
V04-000

N 11  
16-Sep-1984 01:05:44  
14-Sep-1984 12:29:37

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11A.SRC]GETFIB.B32;1 Page (1) 2

```
: 58
: 59
: 60
: 61
0058 1
0059 1
0060 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
0061 1 REQUIRE 'SRC$FCPDEF.B32';
```

GET  
V04

000



```
63 0376 1 GLOBAL ROUTINE GET_FIB (ABD) =
64 0377 1
65 0378 1 ++
66 0379 1
67 0380 1 FUNCTIONAL DESCRIPTION:
68 0381 1
69 0382 1 This routine obtains the address of the FIB for this operation.
70 0383 1 It copies the FIB from the buffer packet into local storage
71 0384 1 and zero extends it to maximum length.
72 0385 1
73 0386 1 CALLING SEQUENCE:
74 0387 1 GET_FIB (ARG1)
75 0388 1
76 0389 1 INPUT PARAMETERS:
77 0390 1 ARG1: buffer descriptor list
78 0391 1
79 0392 1 IMPLICIT INPUTS:
80 0393 1 CURRENT_WINDOW: address of user's window or 0
81 0394 1 IO_PACKET: address of user's I/O packet
82 0395 1
83 0396 1 OUTPUT PARAMETERS:
84 0397 1 NONE
85 0398 1
86 0399 1 IMPLICIT OUTPUTS:
87 0400 1 NONE
88 0401 1
89 0402 1 ROUTINE VALUE:
90 0403 1 address of FIB
91 0404 1
92 0405 1 SIDE EFFECTS:
93 0406 1 file ID may be written into FIB
94 0407 1 channel window pointer write-back inhibited
95 0408 1 result string buffers zeroed
96 0409 1
97 0410 1 --
98 0411 1
99 0412 2 BEGIN
100 0413 2
101 0414 2 MAP
102 0415 2 ABD : REF BBLOCKVECTOR [,ABD$C_LENGTH];
103 0416 2 ! buffer descriptors
104 0417 2
105 0418 2 LOCAL
106 0419 2 FCB : REF BBLOCK, ! FCB of file
107 0420 2 FIBL; ! length of user FIB
108 0421 2
109 0422 2 EXTERNAL
110 0423 2 LOCAL_FIB : BBLOCK, ! internal copy of user FIB
111 0424 2 IO_PACKET : REF BBLOCK, ! I/O packet of this operation
112 0425 2 PRIMARY_FCB : REF BBLOCK, ! FCB of current file
113 0426 2 CURRENT_FIB : REF BBLOCK, ! pointer to current FIB in use
114 0427 2 CURRENT_WINDOW : REF BBLOCK; ! user's window
115 0428 2
116 0429 2
117 0430 2 ! Get the length of the user-supplied FIB. If there is a window,
118 0431 2 ! and there is no user FIB, use the file ID from
119 0432 2 ! the window's FCB. Also use the FCB's file ID if the file number
```



```
120 0433 2 ! in the user FIB is zero.
121 0434 2 !
122 0435 2
123 0436 2 FIBL = .ABD[ABD$C_FIB, ABD$W_COUNT];
124 0437 2
125 0438 2 CH$COPY (.FIBL,
126 0439 2 .ABD[ABD$C_FIB, ABD$W_TEXT] + ABD[ABD$C_FIB, ABD$W_TEXT] + 1,
127 0440 2 0,
128 0441 2 FIB$C_LENGTH,
129 0442 2 LOCAL_FIB);
130 0443 2 CURRENT_FIB = LOCAL_FIB;
131 0444 2
132 0445 2 LOCAL_FIB[FIB$L_ACL_STATUS] = SSS_NORMAL; ! Preset to success
133 0446 2
134 0447 2 IF .CURRENT_WINDOW NEQ 0
135 0448 2 THEN
136 0449 2 BEGIN
137 0450 2 FCB = .CURRENT_WINDOW[WCB$L_FCB];
138 0451 2 IF .LOCAL_FIB[FIB$W_FID_NUM] EQL 0
139 0452 2 THEN CH$MOVE (FIB$S_FID, FCB[FCB$W_FID], LOCAL_FIB[FIB$W_FID]);
140 0453 2
141 0454 2 ! If the file ID in the FIB does not match that in the FCB, this operation
142 0455 2 is not on the open file; clear the FCB and window addresses (except in
143 0456 2 the case of a DEACCESS, in which we force the file ID to that of the open
144 0457 2 file and signal an error).
145 0458 2
146 0459 2
147 0460 2 IF .LOCAL_FIB[FIB$W_FID_NUM] NEQ .FCB[FCB$W_FID_NUM]
148 0461 2 OR .LOCAL_FIB[FIB$W_FID_RVN] NEQ .FCB[FCB$W_FID_RVN]
149 0462 2 THEN
150 0463 2 BEGIN
151 0464 2 IF .IO_PACKET[IRP$V_FCODE] EQL IO$_DEACCESS
152 0465 2 THEN
153 0466 2 BEGIN
154 0467 2 CH$MOVE (FIB$S_FID, FCB[FCB$W_FID], LOCAL_FIB[FIB$W_FID]);
155 0468 2 ERR_STATUS (SS$_BADPARAM);
156 0469 2 END
157 0470 2 ELSE
158 0471 2 BEGIN
159 0472 2 CURRENT_WINDOW = 0;
160 0473 2 PRIMARY_FCB = 0;
161 0474 2 END;
162 0475 2 END;
163 0476 2 END
164 0477 2
165 0478 2 ! If there is no file open, there must be a minimum FIB.
166 0479 2 !
167 0480 2
168 0481 2 ELSE
169 0482 2 BEGIN
170 0483 2 IF .FIBL LSS FIB$C_ACCDATA
171 0484 2 THEN ERR_EXIT (SS$_INSFARG);
172 0485 2 END;
173 0486 2
174 0487 2 ! If the directory ID is -1,-1, convert it to 4,4,0 to be compatible with
175 0488 2 the old RSX MFD kluge.
176 0489 2 !
```

```
177 0490 2
178 0491 2 IF .LOCAL_FIB[FIB$W_DID_NUM] EQL 65535
179 0492 2 AND .LOCAL_FIB[FIB$W_DID_SEQ] EQL 65535
180 0493 2 THEN
181 0494 2 BEGIN
182 0495 2 LOCAL_FIB[FIB$W_DID_NUM] = 4;
183 0496 2 LOCAL_FIB[FIB$W_DID_SEQ] = 4;
184 0497 2 LOCAL_FIB[FIB$W_DID_RVN] = 0;
185 0498 2 END;
186 0499 2
187 0500 2 RETURN LOCAL_FIB;
188 0501 2
189 0502 1 END;
```

! end of routine GET\_FIB

```
.TITLE GETFIB
.IDENT \V04-000\
```

```
.EXTRN LOCAL_FIB, IO_PACKET
.EXTRN PRIMARY_FCB, CURRENT_FIB
.EXTRN CURRENT_WINDOW, USER_STATUS
```

```
.PSECT $CODE$,NOWRT,2
```

```
.ENTRY GET_FIB, Save R2,R3,R4,R5,R6,R7,R8
MOVAB USER_STATUS, R8
MOVAB LOCAL_FIB+4, R7
MOVL ABD, R0
MOVZWL 10(R0), FIBL
MOVAB 8(R0), R1
MOVZWL (R1), R0
MOVC5 FIBL, 1(R1)[R0], #0, #64, LOCAL_FIB
```

```
MOVAB LOCAL_FIB, CURRENT_FIB
MOVL #1, LOCAL_FIB+52
MOVL CURRENT_WINDOW, R0
BEQL 4$
MOVL 24(R0), FCB
TSTW LOCAL_FIB+4
BNEQ 1$
MOVC3 #6, 36(FCB), LOCAL_FIB+4
CMPW LOCAL_FIB+4, 36(FCB)
BNEQ 2$
CMPW LOCAL_FIB+8, 40(FCB)
BEQL 5$
MOVL IO_PACKET, R0
CMPZV #0, #6, 32(R0), #52
BNEQ 3$
MOVC3 #6, 36(FCB), LOCAL_FIB+4
BLBC USER_STATUS, 5$
MOVW #20, USER_STATUS
BRB 5$
CLRL CURRENT_WINDOW
CLRL PRIMARY_FCB
BRB 5$
CMPL FIBL, #10
BGEQ 5$
```

```
0040 8F 00 01 A140 00000000G 00 01FC 00000
58 00000000G 00 9E 00002
57 0000G CF 9E 00009
50 04 AC D0 0000E
56 0A A0 3C 00012
51 08 A0 9E 00016
50 61 3C 0001A
56 56 2C 0001D
FC A7 00026
FC A7 9E 00028
30 A7 01 D0 0002E
50 0000G CF D0 00032
56 18 A0 D0 00039
67 24 A6 06 28 00041
24 A6 67 B1 00046 1$:
28 A6 04 A7 B1 0004C
50 0000G CF D0 00053 2$:
06 00 ED 00058
67 24 A6 06 28 00060
19 68 E9 00065
68 14 B0 00068
0000G 14 11 0006B
0000G CF D4 0006D 3$:
0000G CF D4 00071
OA 0A 11 00075
56 56 D1 00077 4$:
05 05 18 0007A
```

```
0376
0436
0439
0438
0443
0445
0447
0450
0451
0452
0460
0461
0464
0467
0468
0464
0472
0473
0460
0483
```



GETFIB  
V04-000

E 12  
16-Sep-1984 01:05:44  
14-Sep-1984 12:29:37

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11A.SRC]GETFIB.B32;1

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(2)

		0114	8F	BF	0007C	CHMU	#276	: 0484	
				04	00080	RET		: 0491	
FFFF	8F	06	A7	B1	00081	5\$: CMPW	LOCAL_FIB+10, #65535	: 0492	
			13	12	00087	BNEQ	6\$	: 0495	
FFFF	8F	08	A7	B1	00089	CMPW	LOCAL_FIB+12, #65535	: 0497	
			0B	12	0008F	BNEQ	6\$	: 0500	
06	A7	00040004	8F	D0	00091	MOVL	#262148, LOCAL_FIB+10	: 0502	
			0A	A7	B4	00099	CLRW	LOCAL_FIB+14	
	50	FC	A7	9E	0009C	6\$: MOVAB	LOCAL_FIB, R0		
				04	000A0	RET			

; Routine Size: 161 bytes, Routine Base: \$CODE\$ + 0000

: 190 0503 1  
: 191 0504 1 END  
: 192 0505 0 ELUDOM

#### PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	161	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

#### Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	24	0	1000	00:01.9

#### COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:GETFIB/OBJ=OBJ\$:GETFIB MSRC\$:GETFIB/UPDATE=(ENH\$:GETFIB)

: Size: 161 code + 0 data bytes  
: Run Time: 00:07.4  
: Elapsed Time: 00:27.9  
: Lines/CPU Min: 4105  
: Lexemes/CPU-Min: 15105  
: Memory Used: 97 pages  
: Compilation Complete



0165 AH-BT13A-SE  
VAX/VMS V4.0

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